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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,369	09/16/2003	Youichi Matsuyama	02-100	9413	
23400 7.	590 10/27/2004		EXAM	EXAMINER	
POSZ & BETHARDS, PLC 11250 ROGER BACON DRIVE			MULLINS, I	MULLINS, BURTON S	
SUITE 10			ART UNIT	PAPER NUMBER	
RESTON, VA	. 20190		2834	<u>-</u>	
			DATE MAILED: 10/27/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/662,369	MATSUYAMA ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Burton S. Mullins	2834	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on <u>21 Sec</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims			
5)□ 6)⊠	Claim(s) <u>1-18</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) <u>3-12 and 14-16</u> is/are allowed. Claim(s) <u>1,2,17 and 18</u> is/are rejected. Claim(s) <u>13</u> is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.		
Applicati	on Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority ι	ınder 35 U.S.C. § 119			
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachmen	e of References Cited (PTO-892)	4) 🔲 Interview Summary		
2) Notice (3) Information	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da		

Application/Control Number: 10/662,369 Page 2

Art Unit: 2834

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-2 and 17-18 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over any one of Muta (US 5,816,839) or Herve (US 6,175,179), further in view of Niki et al. (JP 10-108402). Muta teaches an electric motor comprising: a motor main body 1 that is rotated upon energization of the motor main body (Fig.1); a speed reducing unit that includes: a speed reducing mechanism (i.e., gearing, c.3, lines 49-52) that reduces rotational speed of the motor main body; and a gear housing 8 that receives the speed reducing mechanism; a connector housing 26 (Fig.2) that is detachably connected to the gear housing 8 and is connectable with an external connector (wires 35), wherein the connector housing 26 is formed separately from the gear housing 8 (Fig.2); the connector housing 8 includes a plurality of connection terminals 30 (Fig.4) that are secured to the connector housing; and the connection terminals 30 of the

Art Unit: 2834

connector housing 8 are connectable with corresponding terminals of the external connector 35 (by means of wire barrels 33; c.5, lines 1-5).

Similarly, Herve teaches an electric motor comprising: a motor main body (rotor) 1 that is rotated upon energization of the motor main body (Fig.2); a speed reducing unit that includes: a speed reducing mechanism (reduction gearing 5) that reduces rotational speed of the motor main body; and a gear housing 2 that receives the speed reducing mechanism; a connector housing 4 that is detachably connected to the gear housing 2 and is connectable with an external connector (not shown, inherent; Fig.1), wherein the connector housing 4 is formed separately from the gear housing (Fig.1); the connector housing 4 includes a plurality of connection terminals (not numbered, connected with 32) that are secured to the connector housing (Fig.1); and the connection terminals are connectable with corresponding terminals of the external connector (Fig.1).

Muta does not specifically disclose "a control circuit board that is held in the gear housing and has at least one electric circuit component" to which the connection terminals 20 are detachably connected, and Herve does not specifically disclose "a control circuit board that is held in the gear housing and has at least one electric circuit component" to which the connection terminals of the connector housing 4 are detachably connected.

Niki teaches a motorized reduction gear including motor 1 and gear casing 3 (Figs.1&2). A control circuit board 12 is held in the gear casing 3 (Fig.1). The board includes brush supporter/holder 10. The arrangement reduces parts for supplying power to the armature.

It would have been obvious to one having ordinary skill in the art to modify either Muta or Herve and provide a control circuit board in the gear casing per Niki since the control circuit would have been desirable to supply power to the armature and also reduce the number of parts during manufacture.

Regarding claim 2, although the combination of Muta or Herve with Niki does not specify the order of installation of the board, the end product is the same, and it has been held that "even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985)

Regarding claims 17-18, the connector housings in both Muta and Herve are not welded to the gear housing, nor connected thereto using a bonding material.

Allowable Subject Matter

- 4. Claims 3-12 and 14-16 are allowed. Claims 3, 5-9 and 14-15 incorporate indicated allowable subject matter.
- 5. Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The circuit board in Niki is parallel with the output shaft axis, not perpendicular thereto.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Burton S. Mullins whose telephone number is 571-272-2029. The examiner can normally be reached on Monday-Friday, 9 am to 5 pm. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/662,369 Page 6

Art Unit: 2834

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Burton S. Mullins Primary Examiner Art Unit 2834

bsm

25 October 2004